



NEW SHEET

Figure 2

T7 promoter

AGATCTCGATCCCGCGAAATTAAATACGACTCACTATAGGGAATTGTGAGCGGATAACAATTCCCC

RBS

TCTAGAAATAATTTGTTAACTTAAGAAGGAGATATACC

NdeI

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCCTGGTGCCGCGGGCAGCCATATGGGATCC

GG

M G S S H H H H H S S G L V P R G S H M -----

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StuI SalI

AATTCAAAGGCCTACGTCGACTAGAGCCTGCAGTCTGACCATCATCATCATCATCATTAATAAAAAGGG

CG

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SpeI BamHI

AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCGAAAGGAAGCTGAGTT

GG

IVEX-3 Primer

T7 terminator

CTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCTCTAACACGGGTCTTGAGGGGTTTTTG

3' - PET Primer

NEW SHEET

Figure 3

BEST AVAILABLE COPY

NEW SHEET

Figure 4

4A:

1 MGSSHHHHH SSGLVPRGSH MIAREDVVLN RILGEFFGE VYEGVYTNHK GEKINVAVKT
61 CKKDCTLDNK EKFMSEAVIM KNLDHPHIVK LIGIIEEPT WIIMELYPYG ELGHYLERNK
121 NSLKVLTLVL YSLQICKAMA YLESINCVR DIAVRNILVA SPECVKLGDF GLSRYIEDED
181 YYKASVTRLP IKWMSPESIN FRRFTTASDV WMFAVCMWEI LSFGKQPFFW LENKDVGVL
241 EKGDRLPKPD LCPPVLYTLM TRCWVDYDPSD RPRFTELVCS LSDVYQMEKD IAM

4B:

PYK2-C1; 5' -TCCACAG CATATG ATTGCCGTGAAGATGTGGT-3' 33 mer

4C:

PYK2-N2; TGGAGAAGGACATTGCCATG TAG GTCGAC GAGAG (Origin)
5' -CTCTC GTCGAC CTA CATGGCAATGTCCTTCTCCA-3' 34 mer

4D:

TCTAGAAATAATTTGTTAACTTAACAGAAGGAGA
TATACCATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCGCGCGCAGCCATATG
attgcc cgtgaagatg
1381 tggcctgaa tcgtatttctt gggaaaggct tttttgggaa ggtctatgaa
ggtgtctaca
1441 caaatcacaa aggggagaaa atcaatgttag ctgtcaagac ctgcaagaaa
gactgcactc
1501 tggacaacaa ggagaagttc atgagcgagg cagtgatcat gaagaacctc
gaccacccgc
1561 acatcgtgaa gctgatcggc atcattgaag aggagccac ctggatcatc
atggaattgt
1621 atccctatgg ggagctggc cactacctgg agcggAACaa gaactccctg
aaggtgctca
1681 ccctcgtgct gtactcactg cagatatgca aagccatggc ctacctggag
agcatcaact
1741 gcgtgcacag ggacattgct gtccggaaaca tcctggtgcc ctcccctgag
tgtgtgaagc
1801 tgggggactt tggctttcc cgg tacatttgg aggacgagga ctattacaaa
gcctctgtga
1861 ctcgtctccc catcaaattgg atgtccccag agtccattaa cttccgacgc
ttcacgacag
1921 ccagtgcacgt ctggatgttc gccgtgtgca tgtggagat cctgagctt
ggaaaggcgc
1981 cttcttctg gctggagaac aaggatgtca tcgggggtgct ggagaaagga
gaccggctgc
2041 ccaaggctga tctctgtcca ccggcccttt ataccctcat gaccgcgtgc
tggactacg
2101 accccagtga ccggccccgc ttccacggc tggtgtgcag cctcagtgac
gtttatcaga
2161 tggagaagga cattgccatg
TAGGTCGACTAGAGCCTGCAGTCGACCATCATCATCATCATTAATAAAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCGAAAGGAAGCTGAGTT
GG